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## **SAFETY DATA SHEET**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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<b>Product</b>	<b>WESTLAND EPSOM SALTS</b>
<b>Supplier</b>	<b>Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ</b>
Tel	0044 (0) 1780 722188
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2. COMPOSITION/INFORMATION ON INGREDIENTS
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Synonyms: magnesium sulphate heptahydrate, magnesium sulphate, magnesium (II) sulphate, magnesium (2+) sulfate, Epsom salts, Epsomite, bitter salts  
Molecular formula:  $MgSO_4 \cdot 7H_2O$   
CAS No: 10034-99-8 ; EINECS No: 231-298-2

3. HAZARDS IDENTIFICATION
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Not classified as dangerous

4. FIRST AID MEASURES
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Accidental over exposure may cause the following symptoms:

*Skin contact:* May cause irritation to broken skin. Wash the affected area with soap and water

*Eye contact:* *R36 Irritating to eyes.* May cause irritation. Irrigate eyes with copious amounts of eyewash solution or water for at least 10 minutes. Obtain medical advice if symptoms persist.

*Ingestion:* May be harmful if ingested in quantity causing diarrhea, thirst, hypotension and respiratory depression. Rinse out mouth with plenty of water and seek medical advice.

*Inhalation:* *R37 Irritating to respiratory system.* High concentrations of dust may cause irritation to trachea and lungs. Remove from source of exposure to dust. Keep warm and at rest.

Obtain medical advice if symptoms persist.



## 5. FIRE FIGHTING MEASURES

Non-flammable

Extinguishing media: If involved in a fire use water spray or dry powder.

Unsuitable extinguishing media – NONE

Exposure hazard: In intense heat, product decomposition will release toxic fumes.

Special protective equipment: Wear self contained breathing apparatus in confined spaces.

Contain contaminated run-off.

Note also first aid precautions (4).

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spillage promptly. Sweep up and place in a clean appropriately labelled container

Refer to exposure controls / personal protection and disposal considerations for further details.

## 7. HANDLING AND STORAGE

*7.1 Handling:* Do not block stack pallets

*7.2 Storage:* Store in original container, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

Ensure high standard of house-keeping in the storage areas. Do not permit smoking or use of naked lights in the storage area. Buildings used for storage should be dry and well ventilated, stacks therein should be at least 1 metre from walls, eaves and beams. Further storage guidance is given in HSE Guidance IND(G)230L.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

8.1 Occupational exposure limits: No specific official limits  
ACGIH recommended value (1995-1996) for inhalable particulate:  
TLV/TWA 10mg/m<sup>3</sup> (8hr), total respirable 5mg/m<sup>3</sup> (8hr).

8.2 Precautionary and engineering measures  
Avoid high dust concentration and provide ventilation where necessary.

8.3 Personal Protection

Wear suitable gloves when handling the product over long periods.

Use suitable dust respirator if dust concentration is high.

After handling product, wash hands and observe good hygiene practice.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder.  
Odour : Odourless.  
pH water solution (100g/l): Usually > 4.5.  
Bulk density: Normally between 900-1100kg/m<sup>3</sup> .  
Solubility in water : Readily soluble in water

## 10. STABILITY AND REACTIVITY

Effloresces in dry air. Stable under normal conditions. Incompatible with strong oxidizing agents.

## 11. TOXICOLOGY INFORMATION

May be harmful by inhalation, ingestion or skin absorption.  
May cause irritation.  
Can cause central nervous system depression.  
Muscle weakness: lungs thorax or respiration and other changes.  
Oral man TD Lo 428 mg/kg.  
Cardiac – other changes: cyanosis.  
Intravenous woman LD Lo 80mg/kg

## 12. ECOLOGICAL INFORMATION

Magnesium and sulphur are important secondary nutrients and can be found in significant quantities in some soils.

12.1 Mobility: Partially soluble in water.  
12.2 Ecotoxicity: Low toxicity to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

Depending on the degree of contamination, dispose of by spreading thinly on open ground or to an authorized waste facility. Disposal in accordance with Environmental Protection Act 1990.

## 14. TRANSPORT INFORMATION

14.1 UN Classification. Classified as non-hazardous.



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15. REGULATORY INFORMATION
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Not classified as dangerous for supply.

16. OTHER INFORMATION
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This safety data sheet provides health and safety information. This product is to be used in applications with best practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication.

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